

Seat No.: _____

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

DEPARTMENT OF COMPUTER APPLICATIONS

Program: Bachelor of Computer Applications

Semester-I End Semester Examination (Practical)

Date: 17-10-2019

Day: Thursday

Duration: 10:15 AM- 11:15 AM

BCA1112C04 Introduction to Programming using Python Lab

Marks: 40

Batch-A

INSTRUCTIONS:

1. Attempt all.
2. In the beginning of each file, write the program objective, name of programmer, date of program creation, programming language and version of program.
3. Name your variables appropriately.
4. Add comments whenever necessary. Functions should have doc string.
5. Write pythonic coding.

SET A

Q1. (10)

Write a program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

Percentage $\geq 90\%$: Grade A
Percentage $\geq 80\%$: Grade B
Percentage $\geq 70\%$: Grade C
Percentage $\geq 60\%$: Grade D
Percentage $\geq 40\%$: Grade E
Percentage $< 40\%$: Grade F

Q2. (10)

Write a program that generates a table of Numbers from 33-255 along with their corresponding characters, the representation of ASCII values in Binary, Octal and Hexadecimal as per follow:

ASCII Value	ASCII Characters	Binary	Octal	Hexadecimal
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Q3. (20)

Create a English-English Dictionary in Python using dictionary consisting of English words as keys and Meanings of those English words in values field. Take any 10 words and their meanings to create your dictionary. Some of these words may have more than one meaning, such values will be kept inside a list of values under the dictionary.

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Implement your dictionary in the following way:

- a. Ask the user to input a word to find its meaning.
- b. If the word found in the keys in the dictionary, return the corresponding value.
- c. If the word not found in the dictionary, print "Sorry! The Meaning of this words not found in dictionary, Try for an another word".
- d. If the user just press enter key, the loop shout break else it should keep on asking for a word from user to find its meaning.

Hints:

keys() method of dictionary returns all the keys of a dictionary.

dicname(key) returns the corresponding value of the key of a dictionary.

Here is a sample dictionary:

```
d = {"apple": "a round fruit with firm, white flesh and a green, red or yellow skin",  
     "seek":["to try to find or get something, especially that is not a phusical object","to ask for  
advice, help, approval, permission, etc."],  
     "abacus": "a square or rectangular frame holding an arrangement of small balls on metal  
rods or wires, used for counting or for doing calculations"  
}
```
